

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2021244PC/or		FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/FI 2003/000485	International filing date (day/month/year) 16.06.2003	Priority date (day/month/year) 19.06.2002	
International Patent Classification (IPC) or national classification and IPC G06F 1/00, G06F 3/033			
Applicant Nokia Corporation et al			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>7</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input checked="" type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input checked="" type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand 15.12.2003	Date of completion of this report 14.09.2004
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## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the claims:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the drawings:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT 2003/000485

## Box No. II Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
- ☐ copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

The priority has been found valid. Therefore, document US, B1, 6476797 is not relevant.

## Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>2-9, 11, 12, 14, 16, 17, 19-26, 28, 29, 31</u>	YES
	Claims	<u>1, 10, 13, 15, 18, 27, 30, 32</u>	NO
Inventive step (IS)	Claims	<u>2, 3, 19, 20</u>	YES
	Claims	<u>1, 4-18, 21-34</u>	NO
Industrial applicability (IA)	Claims	<u>1-34</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

D1: US, A, 5559961  
D2: WO, A1, 9921073  
D3: WO, A2, 0177792  
D4: DE, A1, 19848501

The object of the invention is to provide a password to deactivate a touch screen lock. A password that is easy to remember.

D1 discloses the feature of using a password to access a telecommunications terminal. The display 15 may be a touch-sensitive display screen, and hence itself may function as the entry device. D1 states that a password may comprise a plurality of different images, with each image containing one (or more) of the tap regions that make up the password. Thus, a different image would be displayed after each tap (i.e., 3 images, one tap/image). Or, the password may additionally require that particular tap regions be tapped at particular times. For example, the graphical image could be a moving image, such as a short cartoon, requiring the user to click and tap at right locations at the right time. Also, the password image could be a blank screen (i.e., no image), requiring the user to just remember the location of the tap regions by "dead reckoning" (presumably using extra-large tap regions) (col.5, lines 5-21). The terminal is turned off when number of attempts has exceeded the limit of attempts.

D1 is to be considered as the closest state of the art.

From what D1 states the invention according to claims 1, 10, 13, 15, 18, 27, 30, 32 is not novel.

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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## Box No. VI Certain documents cited

## 1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
US, B1, 6476797	05.11.2002	25.04.2000	27.04.1999

## 2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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**Box No. VIII Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 7 should refer to claim 4 where the reset area first is mentioned.

Claim 24 should refer to claim 21 where the reset area first is mentioned.

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

D2 relates to a graphical password, where the size of the image is reduced in order to change the point that is touched on the display (p.8, line 23 - p.10, line 1).

D3 relates to graphical passwords and states that a first area may be touched in order to zoom in on that region. This is considered to be an equal feature to the reset area of the present invention (p.12, line 27-29; p.13, line 8 - p.14, line 14).

The invention according to claims 9,11,12,14,26,28,29 and 31 merely states details such as issuing a signal when touched, playing a tune etc. obvious to a person skilled in the art and does not require an extra inventive activity performed by the person skilled in the art. Hence, the invention according to claims 9,11,12,14,26,28,29 and 31 lacks an inventive step.

To establish identity check to provide a user profile when several users may use the terminal is considered obvious detail to a person skilled in the art from what is known from D1. To use graphical passwords in order to check the identity of the user is known (see D4). Hence, the invention according to claims 16,17,33 and 34 is considered to lack an inventive step.

To provide a reset area in order to activate the deactivation state is considered to lack an inventive step from what is disclosed in D1. D1 and D3 disclose both the feature of using multiple images that change in order to provide the password. It would be an obvious feature to implement a reset area as the first image. Hence, the invention according to claims 4-8 and 21-25 is not presenting an inventive step.

None of the cited documents disclose the feature of reducing the size of the areas when the touch sequence has failed. Therefore, the claimed invention according to claims 2,3,19 and 20 is not obvious to a person skilled in the art.

Conclusively, the invention defined in claims 1-34 is industrially applicable. The invention according to claims 1,10,13,15,18,27,30,32 is not novel. The invention according to claims 4-9,12,14,16,17,21-26,28,29,31,33,34 lacks an inventive step. The invention according to claims 2,3,19 and 20 is novel and considered to involve an inventive step.